

Appl. No. 10/761,515
Amendment dated May 12, 2006
Reply to Office Action of April 7, 2006

Amendments to the Specification:

Please replace the paragraph beginning at page 27, line 15, with the following rewritten paragraph:

The poly(α -olefin) polymers that can be obtained by the polymerization process herein are substantially amorphous, i.e., a crystalline phase is substantially absent from the resulting polyolefin as defined by an exothermic peak observation in a differential scanning calorimetry (DSC) experiment. In addition to being substantially amorphous, the poly(α -olefin) polymers that can be obtained by the polymerization process herein possess a unique combination of low weight average molecular weight (M_w), low polydispersity index (M_w/M_n , where M_n is number average molecular weight), controllable kinematic viscosity (Kv_{100}), high viscosity index (VI), low iodine number ($I_2\#$), i.e., a substantially saturated polyolefin, and low glass transition temperature (T_g). The poly(α -olefin) polymers possess a M_w of from about 500 to about 50,000, preferably from about 1,000 to about 30,000, and more preferably from about 1,500 to about 20,000, a M_w/M_n of from about 1.0 to about 10, preferably from about 1.5 to about 5, more preferably from about 1.75 to about 3, a Kv_{100} of from about 10 to about 10,000, preferably from about 15 to about 1,000; more preferably from about 20 to about 500, an iodine number of from about 0.0 to about 10, preferably from about ~~0.001~~ 0.1 to about 6, more preferably from about ~~0.002~~ 0.2 to about 4, and a T_g of below about ~~50° C~~ -50° C, preferably below about ~~65° C~~ -65° C, more preferably below about -70° C.